SANITARY SEWER

The FY 2011-15 Capital Improvement Program continues reinvestment in the City's sanitary sewer infrastructure. Funds are budgeted for specific repair projects on Faris Circle and in Haynie-Sirrine, as well as for citywide rehabilitation.


city of
greenville

HAYNIE-SIRRINE SEWER REHABILITATION

Department:	PUBLIC WORKS	Ranking:	GROUP A - CRITICAL PRIORITY
Project Status:	REVISION	Strategic Goal:	SUSTAINABLE CITY
Start/Finish Dates:	JULY 2006 – JUN 2012	Comp. Plan Principle:	COORDINATE HOUSING DEVELOPMENT WITH INFRASTRUCTURE

Project Description:

This project will support sanitary sewer rehabilitation in the Haynie-Sirrine neighborhood to address inadequate capacity and inflow and infiltration issues. This includes flow monitoring, CCTV inspection, surveying, hydraulic modeling, system evaluation, cast in place pipe (CIPP) slip lining, pipe bursting, and open trench line replacement.

Project Justification (Including Relationship to Strategic Goals, Comprehensive Plan, etc.):

This improvement will reduce inflow and infiltration within the basin and will increase flow capacity. Rehabilitation is needed to meet a 15-year work plan that was part of an intergovernmental agreement with ReWa, which released the City from an EPA consent order. Reducing inflow and infiltration will reduce the amount of flow that enters the City's collection system prior to arrival at the ReWa Mauldin Road Wastewater Treatment Plant. This improvement will also provide flow capacity for future redevelopment within the basin. Improving this sewer basin is in line with the Strategic Goal of creating a sustainable city and with the Comprehensive Plan principle of coordinating housing development with infrastructure.

Method for Estimating Cost:

Engineering estimate and actual sanitary sewer evaluation cost.

Project Status (As of January 1, 2010):

Pre-construction flow monitoring, CCTV inspection, and surveying is complete. The hydraulic modeling and system evaluation are being finalized.

PROJECT ITEMS	FUNDING TO-DATE	FY 10/11 COST	FY 11/12 COST	FY 12/13 COST	FY 13/14 COST	FY 14/15 COST	TOTAL PROJECT COST
Planning/Design	$250,000	$300,000	$0	$0	$0	$0	$550,000
Site Acquisition Costs	$0	$0	$0	$0	$0	$0	$0
Improvements	$927,500	$452,500	$1,500,000	$0	$0	$0	$2,880,000
Equipment	$0	$0	$0	$0	$0	$0	$0
Management	$0	$0	$0	$0	$0	$0	$0
TOTAL PROJECT COST	**$1,177,500**	**$752,500**	**$1,500,000**	**$0**	**$0**	**$0**	**$3,430,000**
PROJECT FUNDING SOURCES (LIST)	**FUNDING TO-DATE**	**FY 10/11 EST. FUNDS**	**FY 11/12 EST. FUNDS**	**FY 12/13 EST. FUNDS**	**FY 13/14 EST. FUNDS**	**FY 14/15 EST. FUNDS**	**TOTAL PROJECT FUNDING**
Sanitary Sewer Fund	$250,000	$84,000	$0	$0	$0	$0	$334,000
Sanitary Sewer Revenue Bond - 2002	$0	$96,000	$0	$0	$0	$0	$96,000
State Clean Water Revolving Loan Fund	$927,500	$572,500	$1,500,000	$0	$0	$0	$3,000,000
TOTAL PROJECT FUNDING	**$1,177,500**	**$752,500**	**$1,500,000**	**$0**	**$0**	**$0**	**$3,430,000**
OPERATIONAL COSTS							
Operating Impact		$0	$0	$0	$0	$0	$0
Cumulative Operating Impact		$0	$0	$0	$0	$0	$0
FTEs Added		0.00	0.00	0.00	0.00	0.00	0.00
Cumulative FTEs Added		0.00	0.00	0.00	0.00	0.00	0.00

FARIS CIRCLE SANITARY SEWER

Department:	PUBLIC WORKS	Ranking:	N/A
Project Status:	REVISION	Strategic Goal:	SUSTAINABLE CITY
Start/Finish Dates:	JAN 2006 DEC 2011	Comp. Plan Principle:	ENCOURAGE WATER CONSERVATION AND WATER QUALITY

Project Description:

This project involves replacement of approximately 2,000 linear feet of sanitary sewer and manhole rehabilitation/replacement along the alley behind Faris Circle.

Project Justification (Including Relationship to Strategic Goals, Comprehensive Plan, etc.):

The existing line is deteriorating and needs to be relocated into the roadway. The existing line continues to be a source of inflow and infiltration, and the existing manholes have had multiple sanitary sewer overflows. The City is required, as specified in an intergovernmental agreement with ReWa, to reduce inflow and infiltration and thus the amount of flow entering the Mauldin Road Wastewater Treatment Plant. This is in line with the Strategic Goal of a sustainable city and the Comprehensive Plan principle of encouraging water conservation and water quality.

Method for Estimating Cost:

Engineering estimate and actual design cost.

Project Status (As of January 1, 2010):

Design is complete.

PROJECT ITEMS	FUNDING TO-DATE	FY 10/11 COST	FY 11/12 COST	FY 12/13 COST	FY 13/14 COST	FY 14/15 COST	TOTAL PROJECT COST
Planning/Design	$64,560	$0	$0	$0	$0	$0	$64,560
Site Acquisition Costs	$0	$0	$0	$0	$0	$0	$0
Improvements	$472,500	($22,500)	$0	$0	$0	$0	$450,000
Equipment	$0	$0	$0	$0	$0	$0	$0
Management		$0	$0	$0	$0	$0	$0
TOTAL PROJECT COST	**$537,060**	**($22,500)**	**$0**	**$0**	**$0**	**$0**	**$514,560**
PROJECT FUNDING SOURCES (LIST)	**FUNDING TO-DATE**	**FY 10/11 EST. FUNDS**	**FY 11/12 EST. FUNDS**	**FY 12/13 EST. FUNDS**	**FY 13/14 EST. FUNDS**	**FY 14/15 EST. FUNDS**	**TOTAL PROJECT FUNDING**
State Clean Water Revolving Loan Fund	$472,500	($22,500)	$0	$0	$0	$0	$450,000
Sanitary Sewer Fund	$34,560	$0	$0	$0	$0	$0	$34,560
Sanitary Sewer Revenue Bond - 2002	$30,000	$0	$0	$0	$0	$0	$30,000
TOTAL PROJECT FUNDING	**$537,060**	**($22,500)**	**$0**	**$0**	**$0**	**$0**	**$514,560**
OPERATIONAL COSTS							
Operating Impact		$0	$0	$0	$0	$0	$0
Cumulative Operating Impact		$0	$0	$0	$0	$0	$0
FTEs Added		0.00	0.00	0.00	0.00	0.00	0.00
Cumulative FTEs Added		0.00	0.00	0.00	0.00	0.00	0.00

WASTEWATER SYSTEM REHABILITATION PHASE I

Department:	PUBLIC WORKS	Ranking:	GROUP B - HIGH PRIORITY
Project Status:	REVISION	Strategic Goal:	SUSTAINABLE CITY
Start/Finish Dates:	JULY 2009 – JUN 2014	Comp. Plan Principle:	ENCOURAGE WATER CONSERVATION AND WATER QUALITY

Project Description:

Sewer system rehabilitation will be conducted through a two-year "find-and-fix" cycle. During the first year, the sewer system will be evaluated and projects prioritized; designs will then be completed to address the findings. In year two, the designs will be implemented through various rehabilitation techniques, such as cast-in-place pipe slip lining, pipe bursting, and open-trench excavation and replacement.

Project Justification (Including Relationship to Strategic Goals, Comprehensive Plan, etc.):

This improvement will reduce inflow and infiltration and will increase flow capacity. Rehabilitation is necessary in order to meet a 15-year work plan that was part of an intergovernmental agreement with ReWa, which released the City from an EPA consent order. Reducing inflow and infiltration will reduce the amount flow that enters the City's collection system prior to arrival at the ReWa Mauldin Road Wastewater Treatment Plant. This is in line with the Strategic Goal of a sustainable city and the Comprehensive Plan principle of encouraging water conservation and water quality.

Method for Estimating Cost:

Engineering estimate.

Project Status (As of January 1, 2010):

Project is being rescheduled due to project reprioritization.

PROJECT ITEMS	FUNDING TO-DATE	FY 10/11 COST	FY 11/12 COST	FY 12/13 COST	FY 13/14 COST	FY 14/15 COST	TOTAL PROJECT COST
Planning/Design	$170,000	($170,000)	$0	$200,000	$0	$0	$200,000
Site Acquisition Costs	$0	$0	$0	$0	$0	$0	$0
Improvements	$0	$0	$0	$0	$2,000,000	$0	$2,000,000
Equipment	$0	$0	$0	$0	$0	$0	$0
Management	$0	$0	$0	$0	$0	$0	$0
TOTAL PROJECT COST	**$170,000**	**($170,000)**	**$0**	**$200,000**	**$2,000,000**	**$0**	**$2,200,000**
PROJECT FUNDING SOURCES (LIST)	**FUNDING TO-DATE**	**FY 10/11 EST. FUNDS**	**FY 11/12 EST. FUNDS**	**FY 12/13 EST. FUNDS**	**FY 13/14 EST. FUNDS**	**FY 14/15 EST. FUNDS**	**TOTAL PROJECT FUNDING**
Sanitary Sewer Fund	$74,000	($74,000)	$0	$200,000	$0	$0	$200,000
Sanitary Sewer Revenue Bond - 2002	$96,000	($96,000)	$0	$0	$0	$0	$0
State Clean Water Revolving Loan Fund	$0	$0	$0	$0	$2,000,000	$0	$2,000,000
TOTAL PROJECT FUNDING	**$170,000**	**($170,000)**	**$0**	**$200,000**	**$2,000,000**	**$0**	**$2,200,000**
OPERATIONAL COSTS							
Operating Impact		$0	$0	$0	$0	$0	$0
Cumulative Operating Impact		$0	$0	$0	$0	$0	$0
FTEs Added		0.00	0.00	0.00	0.00	0.00	0.00
Cumulative FTEs Added		0.00	0.00	0.00	0.00	0.00	0.00

WASTEWATER SYSTEM REHABILITATION PHASE II

Department:	PUBLIC WORKS	Ranking:	GROUP C - MEDIUM PRIORITY
Project Status:	REVISION	Strategic Goal:	SUSTAINABLE CITY
Start/Finish Dates:	JULY 2014 – JUN 2016	Comp. Plan Principle:	ENCOURAGE WATER CONSERVATION AND WATER QUALITY

Project Description:

Sewer system rehabilitation will be conducted through a two-year find-and-fix cycle. During year one, the sewer system will be evaluated and prioritized. Designs will be completed to address the findings and prioritization. Year two will consist of implementing the designs through various rehabilitation techniques such as cast-in-place pipe slip lining, pipe bursting, and open trench excavation and replacement.

Project Justification (Including Relationship to Strategic Goals, Comprehensive Plan, etc.):

This improvement will reduce inflow and infiltration and will increase flow capacity. Rehabilitation is needed to meet a 15-year work plan that was part of an intergovernmental agreement with ReWa, which released the City from an EPA consent order. Reducing inflow and infiltration will reduce flow from entering the City's collection system prior to arrival at the ReWa Mauldin Road Wastewater Treatment Plant. This is in line with the Strategic Goal of a sustainable city and the Comprehensive Plan principle of encouraging water quality and conservation.

Method for Estimating Cost:

Engineering estimate.

Project Status (As of January 1, 2010):

Project has been rescheduled due to a project reprioritization.

PROJECT ITEMS	FUNDING TO-DATE	FY 10/11 COST	FY 11/12 COST	FY 12/13 COST	FY 13/14 COST	FY 14/15 COST	TOTAL PROJECT COST
Planning/Design	$0	$0	$0	$0	$0	$200,000	$200,000
Site Acquisition Costs	$0	$0	$0	$0	$0	$0	$0
Improvements	$0	$0	$0	$0	$0	$0	$0
Equipment	$0	$0	$0	$0	$0	$0	$0
Management	$0	$0	$0	$0	$0	$0	$0
TOTAL PROJECT COST	**$0**	**$0**	**$0**	**$0**	**$0**	**$200,000**	**$200,000**
PROJECT FUNDING SOURCES (LIST)	**FUNDING TO-DATE**	**FY 10/11 EST. FUNDS**	**FY 11/12 EST. FUNDS**	**FY 12/13 EST. FUNDS**	**FY 13/14 EST. FUNDS**	**FY 14/15 EST. FUNDS**	**TOTAL PROJECT FUNDING**
Sanitary Sewer Fund	$0	$0	$0	$0	$0	$200,000	$200,000
TOTAL PROJECT FUNDING	**$0**	**$0**	**$0**	**$0**	**$0**	**$200,000**	**$200,000**
OPERATIONAL COSTS							
Operating Impact		$0	$0	$0	$0	$0	$0
Cumulative Operating Impact		$0	$0	$0	$0	$0	$0
FTEs Added		0.00	0.00	0.00	0.00	0.00	0.00
Cumulative FTEs Added		0.00	0.00	0.00	0.00	0.00	0.00